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AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A lithium ion secondary battery comprising:

a positive electrode for absorbing and desorbing lithium ion;

a negative electrode for absorbing and desorbing lithium ion;

a porous film interposed between said positive electrode and said negative electrode, the

porous film having a thickness of 0.5 to 20 µm;

a sheet separator interposed between said positive electrode and said porous film, the

sheet separator having a thickness of 8 to 25 μm and being made of a polyolefin resin; and

a non-aqueous electrolyte;

wherein said porous film is adhered to a surface of at least said negative electrode,

a total thickness of said sheet separator and said porous film is 15 to 30 μm ,

said porous film comprises an inorganic filler and a first binder, a content of said first

binder in said porous film being 1.5 to 8 parts by weight per 100 parts by weight of said filler,

said first binder comprises core-shell type particles of acrylonitrile-acrylate copolymer

having a polyacrylonitrile chain as a first rubber, said first rubber being water-insoluble and

having a decomposition temperature of 250°C or higher,

said negative electrode comprises a negative electrode active material for absorbing and

desorbing lithium ion and a second binder,

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said second binder includes a second rubber particle comprising a polymer including a styrene unit and a butadiene unit, and a water-soluble polymer comprising a polymer including a methylcellulose unit, and

a content of said second binder in said negative electrode is 1.5 to 3 parts by weight per 100 parts by weight of said negative electrode active material.

- 2. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said first rubber has a crystalline melting point of 250 °C or more.
 - 3-7. (Cancelled)
- 8. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic filler comprises an inorganic oxide.
- 9. (Previously presented) The lithium ion secondary battery in accordance with claim 8, wherein a surface of said inorganic oxide is alkaline and has a BET specific surface area of 0.9 m²/g or more.
- 10. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic oxide includes at least one selected from the group consisting of alumina and titanium oxide.
- 11. (Original) The lithium ion secondary battery in accordance with claim 1, wherein a surface roughness of said porous film is less than a surface roughness of an electrode surface to which said porous film is adhered to.
- 12. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic filler comprises a mixture of a large particle group and a small particle group, and

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an average particle size A of said large particle group and an average particle size B of said small particle group satisfy the formula (1):

$$0.05 \le B/A \le 0.25$$
.

13. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said positive electrode and said negative electrode are wound with said porous film interposed therebetween.

14-16. (Cancelled)

- 17. (Previously presented) The lithium ion secondary battery in accordance with claim 1, wherein a surface of said inorganic filler is alkaline.
- 18. (Previously Presented) The lithium ion secondary battery in accordance with claim 1, wherein the acrylate of the core-shell type particles forms an acidic adhesive surface portion on a surface of the core-shell type particles.